

World Resources Company

Form: FM-M01

RECYCLABLE MATERIAL PROFILE

EXHIBIT A
Generator Name: ALASKAN COPPER WORKS
Company I.D. #: W2149A3

A. Generator Information

1. Address: 3200 SIXTH AVENUE SOUTH

3. Material EPA Waste Code: D007

SEATTLE

4. Generator's EPA I.D. Number: WAD980738546

WA

98124

2. Contact: Gerald Thompson

5. Generator's State I.D. Number:

Title: Environmental Assistant

B. Recyclable Material Characteristics

1. Color(s): <u>Gray</u> 	6. Texture (similar to) <input checked="" type="checkbox"/> Wet Clay <input type="checkbox"/> Dry Clay <input type="checkbox"/> Sand <input type="checkbox"/> Powder <input type="checkbox"/> Other	7. Appearance <input checked="" type="checkbox"/> Homogenous <input type="checkbox"/> Bilayered <input type="checkbox"/> Multilayered	9. Free Liquids (EPA SW 846, Method 9095) <input checked="" type="checkbox"/> Not Present <input type="checkbox"/> Present
2. Odor (none, mild, strong) <u>None</u> Description of Odor:			10. Debris <input type="checkbox"/> Not Present <input checked="" type="checkbox"/> Present
			11. Reactivity <input checked="" type="checkbox"/> Not Reactive <input type="checkbox"/> Reactive
3. Moisture (wet, damp, dry) <u>Wet</u> Percent Solids: <u>93.1</u>	8. Organic Vapors <input checked="" type="checkbox"/> Not Present (< 1ppm) If present, identify compounds and amount in ppm on a wet basis. <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Present	12. Radionuclides (ASTM D5928-96) <input checked="" type="checkbox"/> Not Detected <input type="checkbox"/> Detected
4. pH (EPA SW 846, method 9040/9045) pH: <u>6.88</u>	5. Ignitability (40 CFR § 261.21) <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL		13. Cyanide Gas HCN <input checked="" type="checkbox"/> Not Detected <input type="checkbox"/> Detected _____ ppm

C. Analytical Data

(Content on a dry weight basis in ppm or %)

Constituent *	Content	Qualifier	Constituent *	Content	Qualifier
1. Aluminum ¹	Al	12763.4 ppm	19. Magnesium ¹	Mg	170.5 ppm M1
2. Antimony ¹	Sb	19.1 ppm L4	20. Manganese ¹	Mn	8141.0 ppm M3
3. Arsenic ¹	As	72.1 ppm L4	21. Mercury ¹	Hg	< 3.3 ppm
4. Barium ¹	Ba	< 10.0 ppm M1	22. Nickel ¹	Ni	99274.3 ppm
5. Beryllium ¹	Be	< 10.0 ppm	23. Selenium ¹	Se	< 50.0 ppm
6. Bismuth ¹	Bi	92.1 ppm M2	24. Silver ¹	Ag	< 5.0 ppm
7. Cadmium ¹	Cd	< 20.0 ppm	25. Thallium ¹	Tl	< 20.0 ppm
8. Calcium ¹	Ca	176.0 ppm M1	26. Tin ¹	Sn	111.2 ppm L4, M3
9. Chloride ⁴	Cl ⁻	0.06 %	27. Zinc ¹	Zn	3084.7 ppm
10. Chromium, Hexavalent ²	Cr ⁺⁶	78.9 ppm			
11. Chromium, Total ¹	Cr	125545.1 ppm			
12. Cobalt ¹	Co	1287.4 ppm			
13. Copper ¹	Cu	106086.0 ppm M3			
14. Cyanide, Amenable ³	CN ⁻	not analyzed			
15. Cyanide, Total ³	CN ⁻	< 10.7 ppm			
16. Fluoride ⁴	F ⁻	0.00 %			
17. Iron ¹	Fe	603014.6 ppm			
18. Lead ¹	Pb	38.6 ppm			

* Analytical Procedure References

- EPA Method SW846 3050 / 6010 (Digestion / Analysis)
- EPA Method SW846 3060 / 7196 (Extraction / Analysis)
- EPA Method SW846 9010 / 9213 or 9014 (Distillation / Analysis)
- HNO₃ or H₂O₂ / EPA Method SW846 9056 (Digestion / Analysis)

D. Certification

I hereby certify that all information submitted in this profile is complete and accurate to the best of my knowledge and belief.

Signed: 

Date: 6/8/05

Title: Laboratory Manager

AZ DHS #: AZ0586

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Form: FM-M01

QA/QC DATA

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QA/QC Criteria: All analyses met method criteria unless otherwise noted.

Explanation of Data Qualifiers:

- M3 The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level.
The method control sample recovery was acceptable.
- L4 The associated blank spike recovery was below method acceptance limits.
- M1 Matrix spike recovery was high, the method control sample recovery was acceptable.
- M2 Matrix spike recovery was low, the method control sample recovery was acceptable.

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SAMPLE COLLECTION & ANALYSIS COMPLETION DATES

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Constituent	Sample Date	Completion Date	Sample Technician
1. Aluminum	Al 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
2. Antimony	Sb 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
3. Arsenic	As 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
4. Barium	Ba 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
5. Beryllium	Be 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
6. Bismuth	Bi 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
7. Cadmium	Cd 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
8. Calcium	Ca 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
9. Chloride	Cl ⁻ 01/17/2005 16:50	01/20/2005 14:00	KEVIN MCALISTER
10. Chromium, Hexavalent	Cr ⁺⁶ 01/17/2005 16:50	01/24/2005 14:00	KEVIN MCALISTER
11. Chromium, Total	Cr 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
12. Cobalt	Co 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
13. Copper	Cu 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
14. Cyanide, Amenable	CN ⁻		
15. Cyanide, Total	CN ⁻ 01/17/2005 16:50	01/20/2005 12:00	KEVIN MCALISTER
16. Fluoride	F ⁻ 01/17/2005 16:50	01/20/2005 14:00	KEVIN MCALISTER
17. Iron	Fe 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
18. Lead	Pb 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
19. Magnesium	Mg 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
20. Manganese	Mn 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
21. Mercury	Hg 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
22. Nickel	Ni 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
23. Selenium	Se 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
24. Silver	Ag 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
25. Thallium	Tl 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
26. Tin	Sn 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER
27. Zinc	Zn 01/17/2005 16:50	05/06/2005 12:58	KEVIN MCALISTER



World Resources Company

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Tel: 800.972.1955
Fax: 623.936.9164

June 8, 2005

Mr. Gerald Thompson
Environmental Assistant
ALASKAN COPPER WORKS
P. O. Box 3546
SEATTLE, WA 98124-3546

Dear Mr. Thompson:


In accordance with the recycling Agreement with your company, World Resources Company (WRC) provides a "RECYCLABLE MATERIAL PROFILE" (RMP) each contract year. Enclosed, for your records, is a completed RMP for the material generated at your plant. If a qualifier is indicated on the RMP, WRC has provided a quality assurance/quality control case narrative to validate the constituent's result(s).

The concentration of metals reported on the RMP is the total concentration of each metal on a dry basis. The recyclable material is prepared for analysis by first grid-sampling and then drying the selected sample in the laboratory oven at 103°-105° centigrade in order to obtain a homogeneous dry sample (Standard Methods For The Examination of Water and Wastewater, 15th Edition, published by the American Public Health Association 1980, Method 209A "Total Residue at 103°-105° centigrade"). Therefore, these results are generally higher than the concentrations of your material as it leaves your facility. You should multiply these dry concentrations by the decimal form of your percent solids (i.e. 50.0% = 0.50) to obtain the concentration of your material as it leaves your plant.

WRC appreciates your business and looks forward to a long and mutually beneficial recycling relationship. Please feel free to call me at (800) 972-1955 with any questions you may have regarding the enclosed RMP. Thank you for your interest in recycling.

Sincerely,

World Resources Company


Jason Hensley
Laboratory Manager

Enclosures